



**Massachusetts Bay
Transportation Authority**

Commuter Rail Positive Train Control (PTC)

Program Update

April 30, 2018



OVERVIEW

This presentation provides an update to the Fiscal and Management Control Board on the progress of the Commuter Rail Positive Train Control Program in implementing this safety critical system in compliance with FRA regulatory requirements.



Current PTC Activities and Progress

- Draft PTC Safety Plan Submitted to FRA Feb 23rd
- Stoughton Line testing continues – testing started Jan 27th
- Lowell Line testing continues – testing started Feb 11th
- PTC Software testing – software certified for use on test trains
- Agreement with Pan Am on PTC executed Apr 11th
- PTC Training of Keolis staff has commenced



Current PTC Activities and Progress

- Vehicle PTC upgrades accelerated to 6 per week starting Jan 29th
 - Completed 91 of 107 locomotives
 - Completed 58 of 96 cab cars
 - Nearing completion of active fleet
- Bulk installation complete on 6 of the 14 lines
 - Stoughton, Lowell, Middleboro, Plymouth/Kingston, Needham and Fairmount complete
 - Installation nearing completion on Greenbush and Fitchburg Line
 - Weekend outages on Franklin Line in April and May for installation
- Program is supported by dedicated Keolis flagging/signal personnel
 - Use of the Keolis resources is being optimized to meet the schedule
 - There have been challenges with Keolis support



Weekend Shutdown Schedule

2018																																
	3-Mar	10-Mar	17-Mar	24-Mar	31-Mar	7-Apr	14-Apr	21-Apr	28-Apr	5-May	12-May	19-May	26-May	2-Jun	9-Jun	16-Jun	23-Jun	30-Jun	7-Jul	14-Jul	21-Jul	28-Jul	4-Aug	11-Aug	18-Aug	25-Aug	1-Sep	8-Sep	15-Sep	22-Sep		
Commuter Rail Line						PTC Weekend Shutdowns																										
Franklin (Forge Park to Readville)	No Impact to Weekend Service																															
Worcester (Worcester to Framingham)																																
Worcester (Framingham to Boston)																																

- Framingham Station will remain open for service during all 2018 PTC weekend shutdowns.
- No weekend shutdowns are required on the Greenbush, Middleborough, Providence/Stoughton, and Kingston/Plymouth lines.



What's Getting Installed?



Antennas



Fiber optics



Wood poles



Signal houses



Next Steps

- Stoughton Line Testing (Saturday through Wednesday with mid-day bussing)
- Lowell Line Testing (nights, possible weekend busing in May)
- Worcester Line weekend outages June and July for installation
- Continue with Vehicle Equipment Installations
- Continue Bulk and Detailed Wayside installation
- Monitor Development and Testing of PTC Software
- Continue Meetings with FRA and FTA
- Continue Interoperability Meetings with Tenant Railroads
- Prepare Revenue Service Demonstration and Extension Requests



Summary

- PTC is MBTA's highest priority capital program
- MBTA is committed to implementing PTC on a schedule that will ensure compliance with requirements for being granted an extension in 2018 for a full PTC deployment by 2020
- FRA has moved the MBTA's PTC Program status from "Red" to "Yellow" indicating improved performance and likelihood of meeting 2018 deadline requirements